

### **U. S. Department of Transportation**

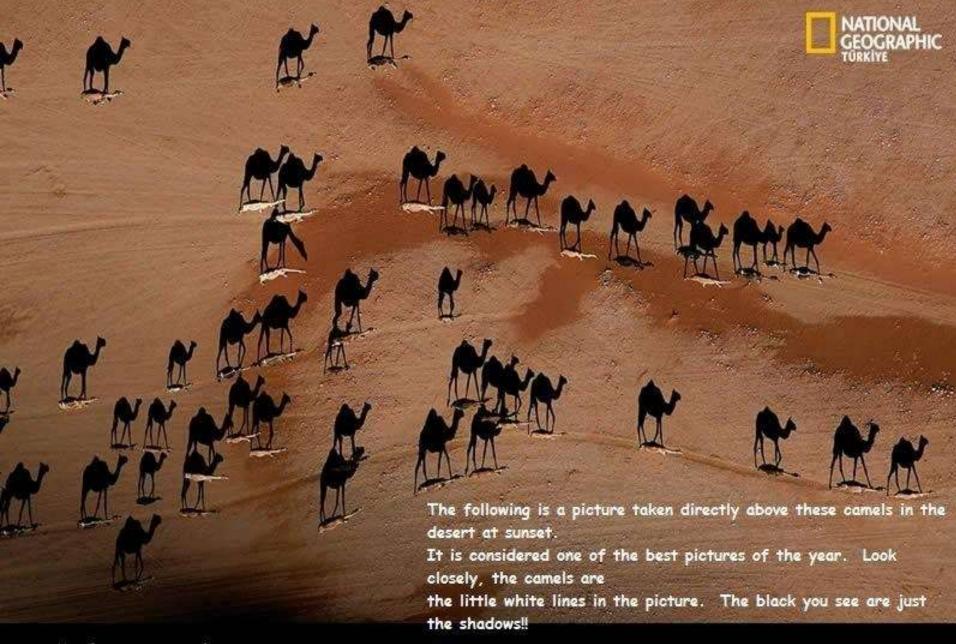
## Pipeline and Hazardous Materials Safety Administration





# Thoughts for Consideration

Pipeline and Hazardous Materials Safety Administration
Community Assistance and Technical Services
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2008



Fotoğraf: George Steinmetz

Dev Develer

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National Geographic Türkiye, Şubat 2005





### **Presentation Topics**

### >RP1162

- Process At the Region/State Level
- > Workshop Comment
- > 4 Supplemental Take Away Questions

- ➤ Working Together:
  Damage Prevention & Public Awareness
- > Effectiveness





### RP1162 - The Region/State Level

#### **ONLY FOR CLEARINGHOUSE SUBMISSIONS:**

- > Operator Response to Comments Reviewed
  - > Acceptable
  - Unacceptable
- ➤ May Occur This Year
  - Central Region, Information on Region Response Passed to Inspectors, Emphasis Identified if necessary
  - States
- > II Future
  - Webcast information
  - http://primis.phmsa.dot.gov/comm/PublicAwareness Workshops.htm





# RP1162 Overwhelming Information

- ➤ Comment from Workshop –
  TOO MUCH INFORMATION
- **≻**For Consideration:
  - ➤ Timing of mailing reviewed
  - >7-8 times to retain
  - ➤ Is it all required in one mailer?
  - ➤ Check for duplicates or more
    - Multiple Titles & Same Name & Same Address
    - Multiple Companies, Same Name & Same Information





# RP1162 Supplemental Programs Key Questions

### **Questions:**

- ➤ Can you explain process to others?
- ➤ Can an employee understand the process?

(Hint: Did you test it?)

- ➤ When are the 12 elements reviewed?
- ➤ What triggers which activity with whom?





### **Continuous Improvement Ideas**

#### **REMEMBER:**

- **► Ideas Only**
- ➤ Purpose is to Foster Process Improvement and Discussion
- ➤ Idea is not Synonymous with Expectations
- Continuous Improvement may not mean a trend upwards every time
- ➤ An Operator May Find Value in All or Some of These Suggestions

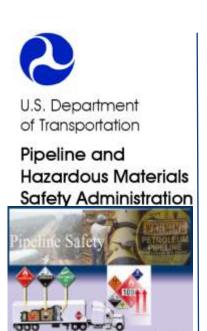


- ➤ Remember the PSIA2002?
  - > Self-Evaluations

- Actions to Demonstrate:Document improved areas(management support:
  - >\$\$, >resources, >vendors,
  - >publications,>activities,...)



- ➤ Is the information getting where it should?
  - > School
  - ➤ Emergency Notified by Public Official, Public Official Notified by Public
  - Actions to Demonstrate: Document follow-up and results to these specific type of calls (contact list updates, procedures, etc)



- ➤ Who in the Organization Should Know About This Information (Section 2.4.7)?
  - ➤ Emergency Responder and Public Official Contacts
  - ≥800 numbers and delay
  - ➤ Moving a meter and Leak
  - Actions to Demonstrate: Document improved process, procedures, training activities and sharing of information

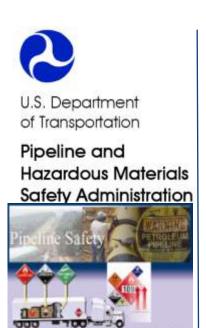
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#### Tracking to make a difference?

- > Can you query data in a meaningful way?
- > Excavators and Contact with the Pipe
- > Excavators and One-Call tickets,
- > One-Call tickets and locators
- > Actions to Demonstrate:
- Query repeat offenders for hits,
- Query repeat offenders for excavation without a valid one-call ticket,
- Query bad locates.
- Document your process to follow-up on the queried data.
- > Track further information.



- Can you query data in a meaningful way?
  - > Clearing issue
  - ➤ Action to Demonstrate: Review mailing method and work to identify whether or not this is an issue



➤ How are we targeting who THEY trust?

> Home information

➤ Action to Demonstrate:

The meter reader, business extensions through employees, ...



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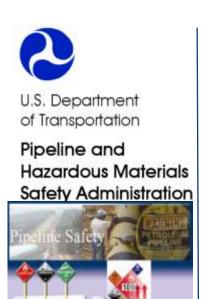






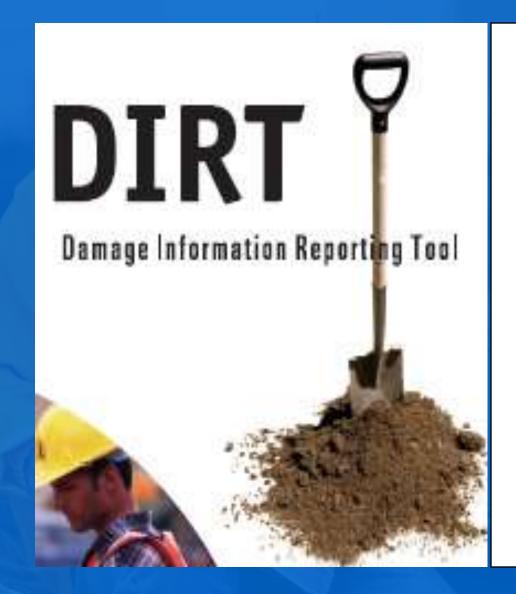


- ➤ Converting Existing Resources and Valid Data into Action
- Action to Demonstrate:
  Use A Different Perspective, Review and Document:
  - Aerial Patrols
     Repeat Locations
     Seasonal Activity
  - > Customer Service Departments/Rate Changes
  - Meter Readers and Opportunities
  - > Developer and City Calls to Engineering Departments
  - Incident/Accident Reports and Follow-up
  - > 800 Calls and Follow-up
  - Complaints and Resolution
  - New Pipeline Construction and Contacts
  - ROW Management Data



- Trend Items that Can Help You Too!!
  - ➤ Locates and No Response Tickets
  - > Excavators that did not place a ticket
  - ➤ Near Miss Events

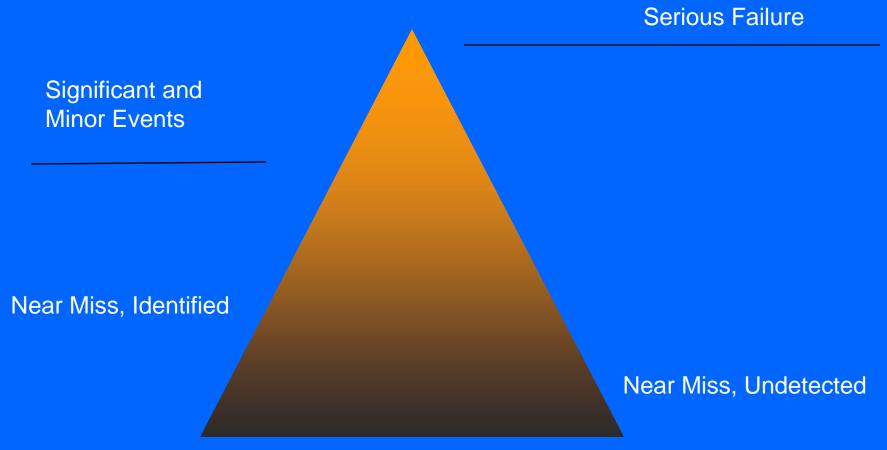
➤ Action to Demonstrate: Follow-up (ask why), document numbers and changes in procedures or contracts, document sharing of information and how you have improved a process



## **CGA Data Reporting & Evaluation Committee**



### Safety Pyramid



Identifying Near Miss information can help assure that situations don't climb the pyramid to become Significant Events or Serious Failures





### **Continuous Improvement Ideas**

### > DIRT DATA

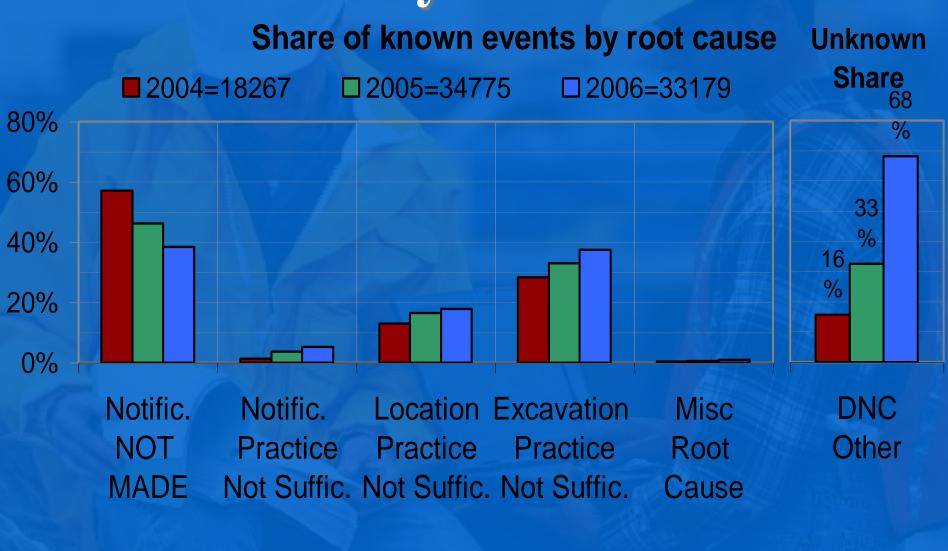
- > DQI
- Local Versus National
- Action to Demonstrate: Follow-up (ask why), use the power query wizard, look at local versus national data, document changes and how you have improved compared to local, national data and how DQI index has improved.

## Data Quality Index

- Data Quality Index (DQI). The DQI is intended to provide DIRT users with a measure of the completeness and/or quality of the data it submitted, based on the required data fields using selections other than DNC or U/O.
- To encourage individual stakeholders to align their data collection processes with DIRT.
- More complete information results in more effective analysis of the entire data set.
- Historical DQI's will measure improvements of data submissions for each individual or organization submitting to DIRT



## **Events by Root Cause**

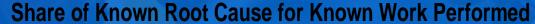




### Professional Excavators

Chart 9

2006 Contractor, Developer, Utility - 18393 of 31153 (59% Known Data)



- Notification NOT MADE
- □ Location Practice Not Sufficient
- Miscellaneous Root Cause

- □ Notification Practice Not Sufficient
- ☐ Excavation Practice Not Sufficient



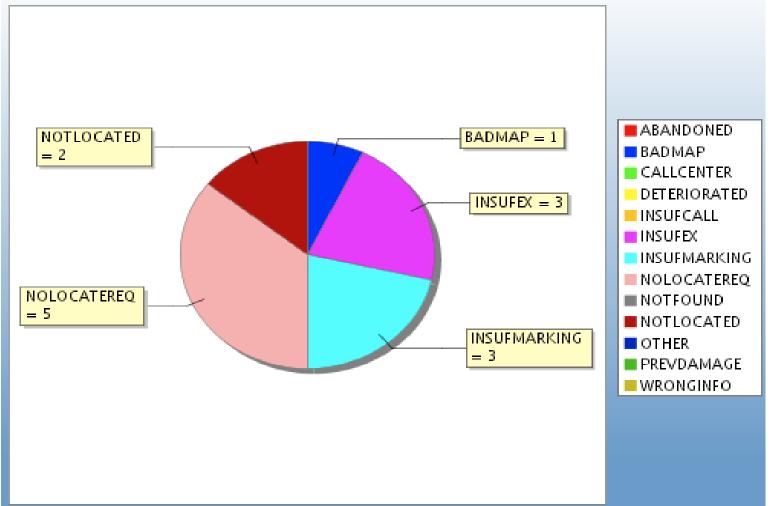


Report: RPT03: Breakdown by Category - Pie

Time Period: 01/01/2005 to 06/20/2005

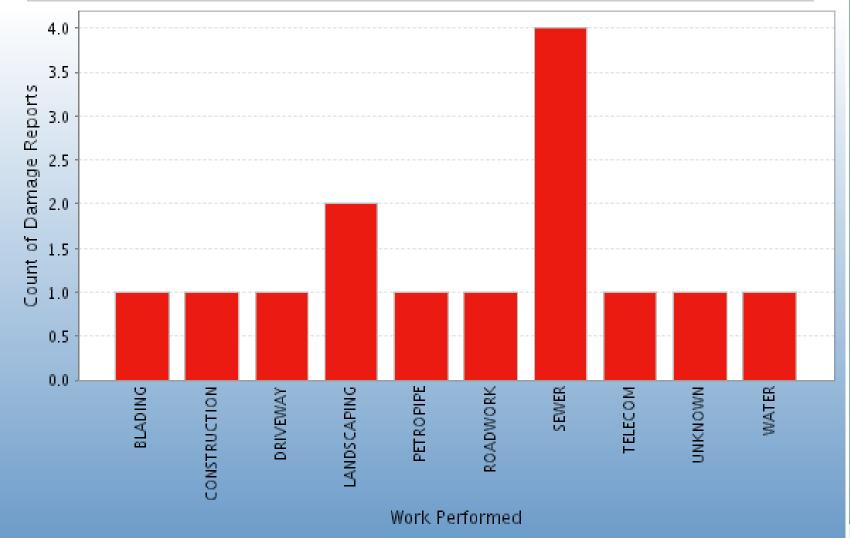
Data Set: ALL data in system, reported by App Admin Report Run: 2005-06-21 00:08:50 MDT

#### Root Cause of damage



Report: RPT04: Breakdown by Category - Bar Time Period: 01/01/2005 to 06/20/2005

Data Set: ALL data in system, reported by App Admin Report Run: 2005-06-21 00:26:07 MDT





## Food For Thought

- Problem Statement: The Washington Monument was disintegrating Why?
  - Use of harsh chemicals
- Why?
  - To clean pigeon poop
- Why so many pigeons?
  - They eat spiders and there are a lot of spiders at monument
- Why so many spiders?
  - They eat gnats and lots of gnats at monument
- Why so many gnats?
  - They are attracted to the light at dusk.
- Solution: Turn on the lights at a later time.





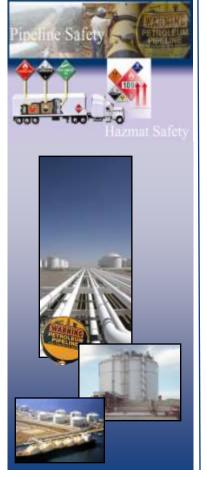


- > Review Presentations Used
  - ➤ Do the pictures speak?
  - ➤ Do you see what you should?
  - ➤ Are you using the Data to improve or grab attention?
  - > Action to Demonstrate:
  - > Record changes made
    - > to presentations by stakeholder group
    - > to provided information
    - > indicate why or what is being tested.



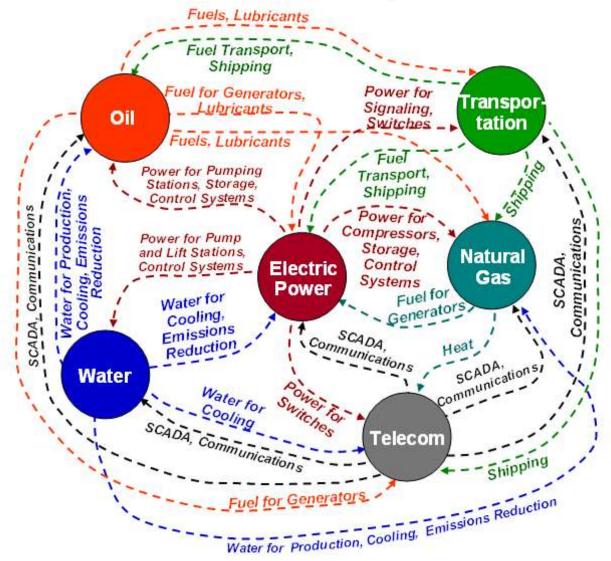
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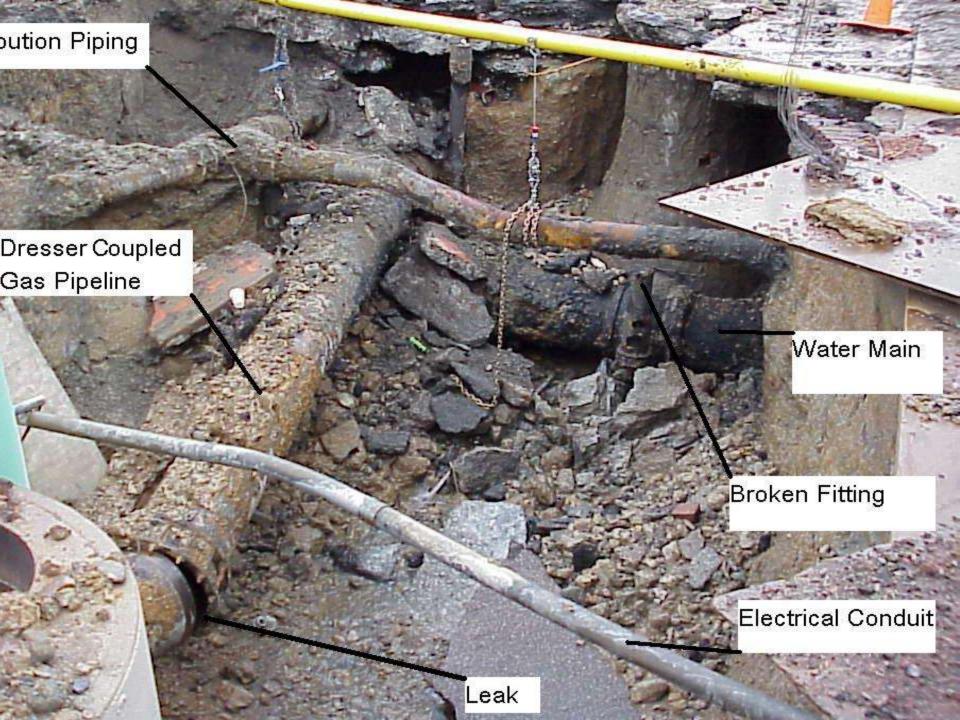
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## The National Pipeline System

### Infrastructure Interdependencies









- ➤ Remember the PSIA2002?
- ➤ Is the information getting where it should?
- ➤ Who in the Organization Should Know About This Information (Section 2.4.7)?
- > Tracking to make a difference?
  - Can you query data in a meaningful way?
- > How are we targeting who THEY trust?
- ➤ Converting Existing Resources and Valid Data into Action





- > Trend Items that Can Help You Too!!
  - > Locates and No Response Tickets
  - > Excavators that did not place a ticket
  - Near Miss Events
- >DIRT DATA
  - > DQI
  - Local Versus National
- > Review Presentations Used
  - ➤ Do the pictures speak?
  - ➤ Do you see what you should?
  - ➤ Are you using the Data to improve or grab attention?





### **Program Evaluation**

**Assessment of Program**Implementation

 Measuring Program Effectiveness





# Program Development and Documentation

- Has the Public Awareness Program been developed and written to address the objectives, elements and baseline schedule?
- Does the operator have a <u>written Public Awareness</u> <u>Program?</u>
- Have <u>all of the elements been incorporated</u> into the written program?
- Does the written program address all of the objectives?
- Does the documented program address regulatory requirements and other regulatory requirements that the operator must comply with?
- Does the operator have a plan that includes a schedule for implementing the program?
- Does the program include <u>requirements for</u> <u>updating responsibilities as organizational changes</u> are made?



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### **Program Implementation**

- Has the public awareness <u>plan been implemented and</u> <u>documented</u> according to the written plan?
- Is the program <u>updated and current with any significant</u> <u>organizational or major new pipeline system changes</u> that may have been made?
- Are <u>personnel assigned responsibilities</u> in the written program <u>aware of their responsibilities</u> and have <u>management support (budget and resources)</u> for carrying out their responsibilities on the program?
- Has the program implementation been <u>properly and</u> <u>adequately documented?</u>
- Have all <u>required elements of the program plan been</u> <u>implemented in accordance</u> with the written plan and schedule?
- Does the operator have <u>documentation of the results of</u> evaluating the program for effectiveness?
- Are the results of the evaluation of program effectiveness being used in a structured manner to improve the program or determine if supplemental actions (e.g. revised messages, additional delivery methods, increased frequency) in some locations?





# Measuring Program Effectiveness





# Outreach: Percentage of Each Intended Audience Reached with Desired Messages –

- Supplemental Measures Track the number of inquiries by phone to operator personnel.
- Track input received via feedback postcards (often called reply or bounce-back cards) from representatives of the stakeholder audience at events or meetings, sent by mail, or as a result of the operator's canvassing of the rights-of-way.
- Track the number of officials or emergency responders who attend emergency response exercises (this is an indicator of interest and the opportunity to gain knowledge).





#### **Desired Behaviors by the Intended Stakeholder**

#### **Audience – Supplemental Measures**

- Whether excavators are following through on <u>all safe</u> excavation practices, in addition to calling the One-Call Center.
- The number of notifications received by the operator from the excavation One-Call Center (e.g., is there a <u>noticeable increase following distribution</u> of public awareness materials?).
- An assessment of <u>first responder behaviors</u>, including the response to pipeline-related calls, and a post-incident assessment to determine whether their actions would be and were consistent with the key messages included in the public awareness communications. Assessments of actual incidents should recognize that each response would require unique onscene planning and response to specifics of each emergency.
- Measuring the <u>appropriateness of public stakeholders'</u> <u>responses</u> is also anecdotal but could include tracking whether an actual incident that affected residents was correctly identified and whether reported and personal safety actions undertaken were consistent with public awareness communication.





#### **SURVEY FOR EMERGENCY OFFICIALS**

Do you know where the nearest hazardous liquid or gas pip community?	oeline is in	or near your
Do you know the name of your local pipeline operator?	YES	NO
If yes, who?		
Do you know the telephone number to call at if need more information?	there is an YES	incident, or if you NO
Have you seen, heard, or received any information regarding media in the last year?	ng pipeline YES	safety in any NO
If yes, do you recall what?		
Have you or anyone else in your department, to your know representatives of to discuss pipeline safet prior to today?	ledge, met	with any
If yes, when?		
With whom?		
Do you have a response plan or SOPs for responding to a p break?	ipeline inc YES	ident, such as a NO
Have you done any practical training to deal with a break?	YES	NO
Do you know if there were any pipeline incidents within the community?	e last ten ye YES	ears in your NO
If yes, about when?		
What was the incident?		
Did the pipeline company respond?	YES	NO
If yes, do you feel the pipeline company dealt with the incid	ent in a sa	tisfactory manner?
Hasprovided you with enough information about their	pipeline? <mark>Y</mark>	YES NO
Comments		
SIGNATURE:	_ TITL	<b>E:</b>
DATE.		38



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#### **SURVEY FOR AFFECTED PUBLIC**

In the last year pipeline	:, have you seen or safety?	r heard any i YES	nformation fron	n relating to NO
	ial (brochure, flye Posted informatio			r article Face-to-face
Do you live clo	se to a hazardous	liquid or gas	pipeline?	
YES	NO		DO NOT KNO	W
What would yo	ou do in the event	you were fir	st to see damage	to a pipeline?
Call 911Call pi	ipeline operator F	lee area Notl	ning (not my res	ponsibility) Other:
What would yo	ou do if you saw so	omeone inter	tionally trying t	o damage a
Call 911Call pi	ipeline operator F	lee area Notl	ning (not my res	ponsibility) Other:
	called, 9 ne activity near a		e else to report s YES	uspicious or
	ict released from a		ver encountered YES	a damaged pipeline
	or disagree that ng people like you			good job of
Strongly agree	<b>Agree Disagree S</b>	trongly disag	gree	
If you disagree	, why?			
Comments				
<b>SIGNATURE:</b>	- <u></u>	_ <b>DATE:</b>	<del></del>	





### **SURVEY FOR PUBLIC OFFICIALS**

Do you have a hazardous liquid or gas pipelir	ie running	through your community?	
YES		NO	
Do you know the name of your local pipeline	operator?		
YES	_	NO	
Have you heard or seen a message regarding	pipeline sa	fety in the last 12 months?	
YES	NO	If yes, how many?	
Before today, about when was your last conta Company related to pipeline safety?		meone from	
Do you know the telephone number to call at incident or you need more information		Company if there is YES	an NO
Do you know what precautions an excavator accidentally hitting a pipeline?	should tak	e prior to digging to avoid YES	NO
If yes, what are they?			
Are you familiar with the one-call requirement	nts?	YES	NO
How would you rate the adequacy of informa recognize a leak, what to do where the etc.)? About right Too much Not enoug	re is a leak		
Does your community have an emergency res	ponse plar	n to deal with a pipeline bre	ak?
	YES		NO
Are you aware of any pipeline breaks that occ	curred in y YES	your community in the last 1	10 years? NO
Have any of your local citizens or businesses of any issues regarding pipeline safety?	expressed of YES	concern in the last 12 montl NO	is about
Comments			
SIGNATURE:	T	TTLE:	
<b>DATE:</b>			



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## **SURVEY FOR EXCAVATORS**

In the last 12 months, have you been contacted or received written information from regarding pipeline safety? YES NO
If yes, what was the source:
Telephone call Mail Visit or in-person meeting E-mail Sign or billboard Other:
Have you contacted or One-call in the past year to inquire about the location of the pipelines? YES NO
If yes, how many times?If yes, how did you make the contact?
Telephone call, E-mail, Letter, In-person, Other:
How often would you say your equipment operator checks whether a pipeline exists before digging in a new spot?  Always, Usually, Sometimes, Rarely, or Never, Don't know If not always, why not?
Didn't know where to get information, Not necessary, Didn't think about it, Takes too much time, Think we can tell where pipeline is on our own, Other:
How do you make sure that all the right people in the company get the information on whom to call before digging? That is, how do you disseminate the information?
Post it, Discuss in meetings, E-mail, Calls, Put in company's written procedures, Put in company newsletter, Other:





### Excavator (Cont.)

How many of them probably have information on where to call before digging? Has your company ever unexpectedly encountered a pipeline while digging? YES NO If yes, how often has this occurred? If yes, how many were "close calls"? How many resulted in damage? **Comments** SIGNATURE: NAME OF COMPANY:\_\_\_\_ **DATE:** \_\_\_\_\_

#### **SUMMARY OF EVALUATION**

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#### **PROCESS**

s	Evaluation Approaches	<b>Evaluation Techniques</b>	Recommended Frequency
on is	Self Assessment of Implementation	Internal review	Annually
	Evaluation of effectiveness of program implementation: Outreach Level of knowledge Changes in behavior Bottom-line results	Survey operator-designed and conducted survey	No more than four years apart.
	Implement changes to the PAP	Responsible person as designated in written PAP	As required by findings within 12 months of evaluation





# **Continuous Improvement Ideas**

Just because we have done it that way,

Does not mean it is the best use of \$\$\$\$\$ and Resources





# **Things People Do**



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ME FIRST





of Transportation

Pipeline and

Hazardous Materials Safety Administration



#### And the SURGEON GENERAL

says..

THE ROANOKE TIMES Monday, September 20, 2004





STEPHANIE KLEIN-DAVIS 1 The Roanoke Times

Mellisa Williamson, 35, a Bullitt Avenue resident, worries about the effect on her unborn child from the sound of jackhammers.



# **Diversionary tactic.**

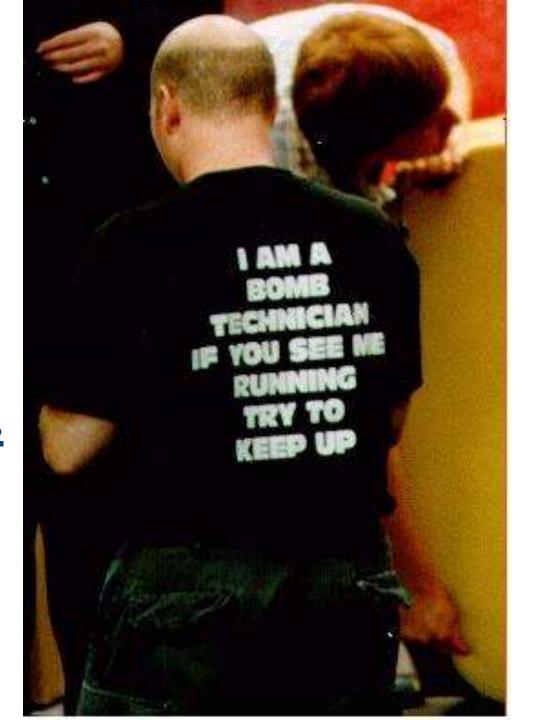
Ladies and gentlemen, this is the captain speaking. Firstly, I'd like to thank you for choosing to fly Mandarin Airlines. As we taxi out to the runway please make yourself comfortable... and for those of you sitting on the right side of the plane... please look to your LEFT!



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Words
of
Wisdom.

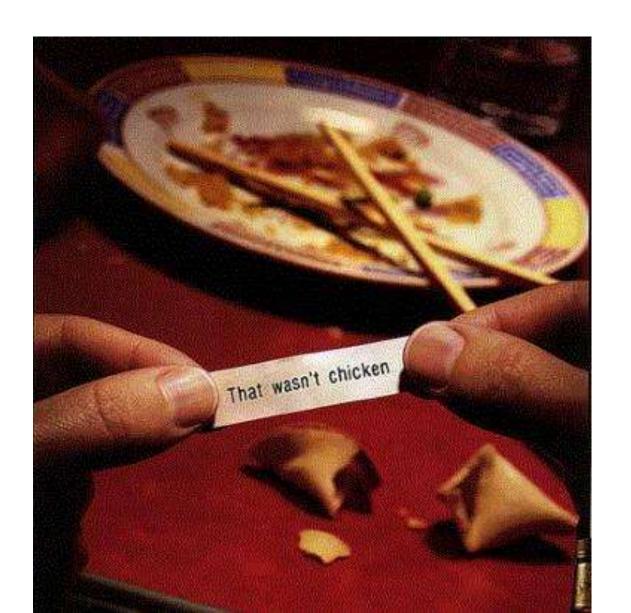




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# A fortune to remember





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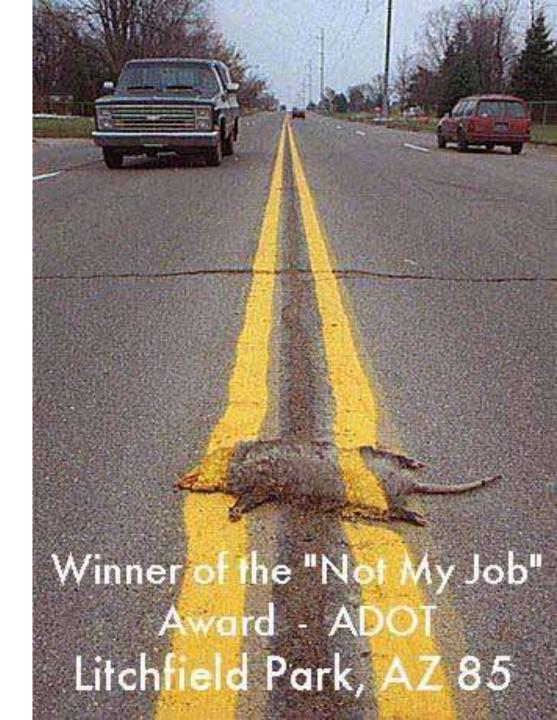
# Stay off the course ... or else!







# Not my job





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# **BEST T-SHIRT DESIGN**





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# FRIDGE MAGNET

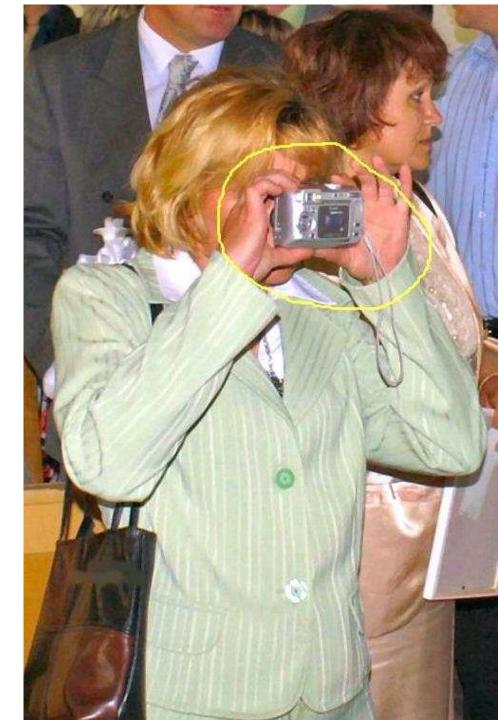




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# QUEEN OF THE BLONDES







# **QUESTIONS?**

**Harold Winnie 816-329-3836**